INSTRUCTION MANUAL FOR MODEL 125A

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MANUFACTURING DIVISION • BROMMA, SWEDEN

OPERATING NOTES

FOR

NOISE SOURCE

MODEL 125

WARNING

DO NOT OPERATE THIS SOURCE FROM A SUPPLY VOLTAGE HIGHER THAN +28 V DC.

PERMANENT DAMAGE WILL OCCUR IF CONNECTED TO GAS TUBE OUTPUT (MODULATOR MODEL 1175) OF NOISE FIGURE METER.

MAGNETIC AB
Stockholm - Sweden

A NOTE ON CONNECTORS

1. Make sure that mating connectors are corretly mounted (have correct dimensions, length of center pin etc).

2. When the noise source is used for production testing (i.e. when several connections and disconnections are made during the day) it is advisable to mount a coaxial adapter on the noise source in order to protect its output connector.
   The adapter should be a rigid piece with suitable connectors if maximum accuracy is wanted.

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NOISE SOURCE MODEL 125 A

Specifications

Frequency Range, GHz 0.01-1.5
Excess Noise,dB(vs freq).....15.5 ± 0.5
VSWR.....1.2
Connector.....Type N
Length,mm,approx.....100
Input.....28V
Input Connector.....BNC

Calibration Ser.no....143R....

Accuracy ± 0,25 dB

Frequency GHz	Excess Noise dB
0.010	15.7
0.030	15.65
1.0	15.65
1.5	15.6

Operation

This noise source is intended for operation from a +28V supply. This can be either a pulse or DC voltage. It is primarily intended for operation together with Noise Figure Meter model 117 and should then be driven by the solid state noise modulator model 1178/1179. This modulator deliveres a 28V pulse to the noise source.
The excess noise compensator on model 117 should be set to the actual excess noise for the noise source.

Guarantee

Magnetic AB guarantees each equipment and component of its manufacture to be free from defects in material and workmanship for a period of 12 months. Our obligation under this guarantee is limited to servicing or adjusting any instrument returned to our factory for that purpose and to making good at our factory and parts thereof — except tubes, fuses, batteries, semiconductors and bolometers — which shall, within one year after making delivery to the original purchaser, be returned to us with transportation charges prepaid and which, upon examination by us shall appear to have been thus defective, providing misuse or mal-handling can not be proved.

RETURN PROCEDURE:

When returning instruments or components for repair, or for any other reason, please contact the company for shipping instructions. To expedite repair service, it is very important to provide **type number, serial number,** and a **detailed description of the reason for the return of the instrument.**

Magnetic AB

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